

FIG. 1

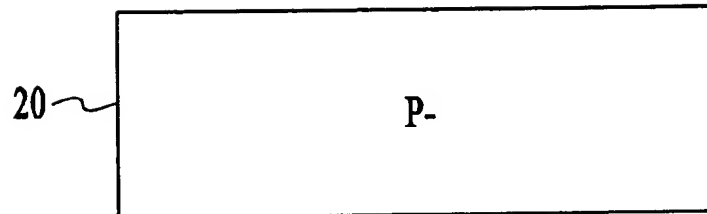


FIG. 2A

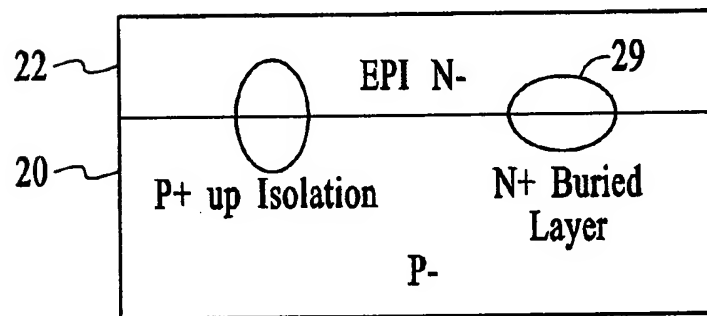


FIG. 2B

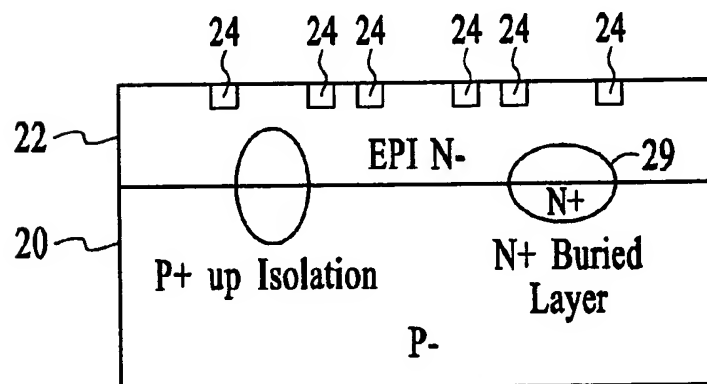


FIG. 2C

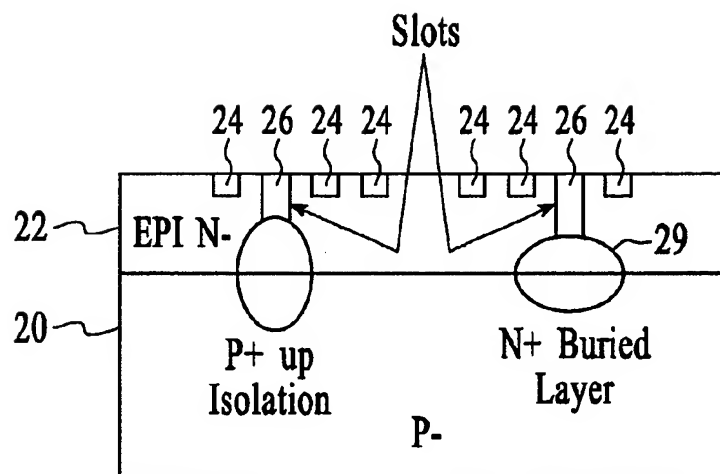


FIG. 2D

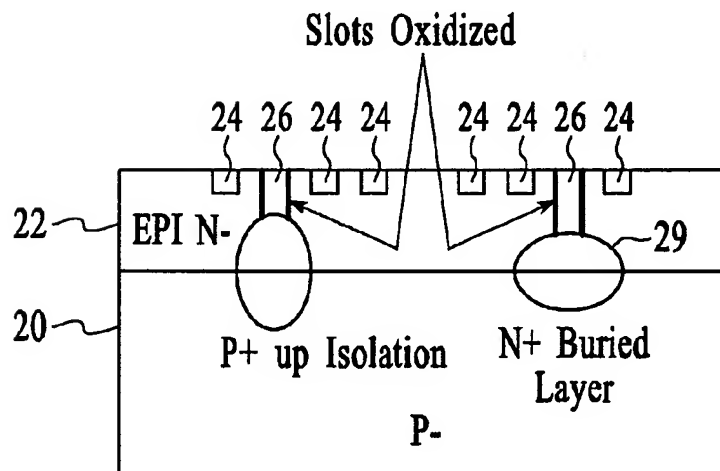


FIG. 2E

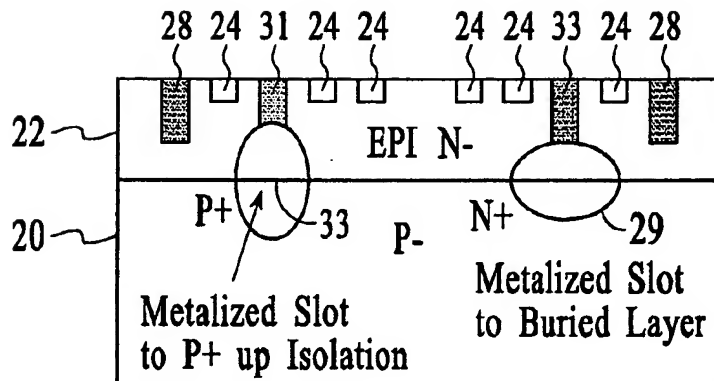


FIG. 2F

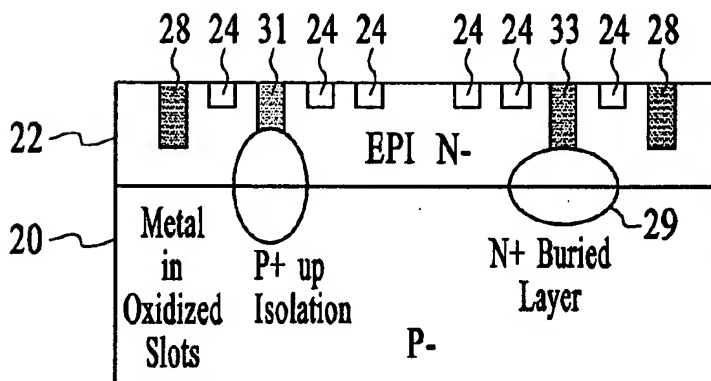
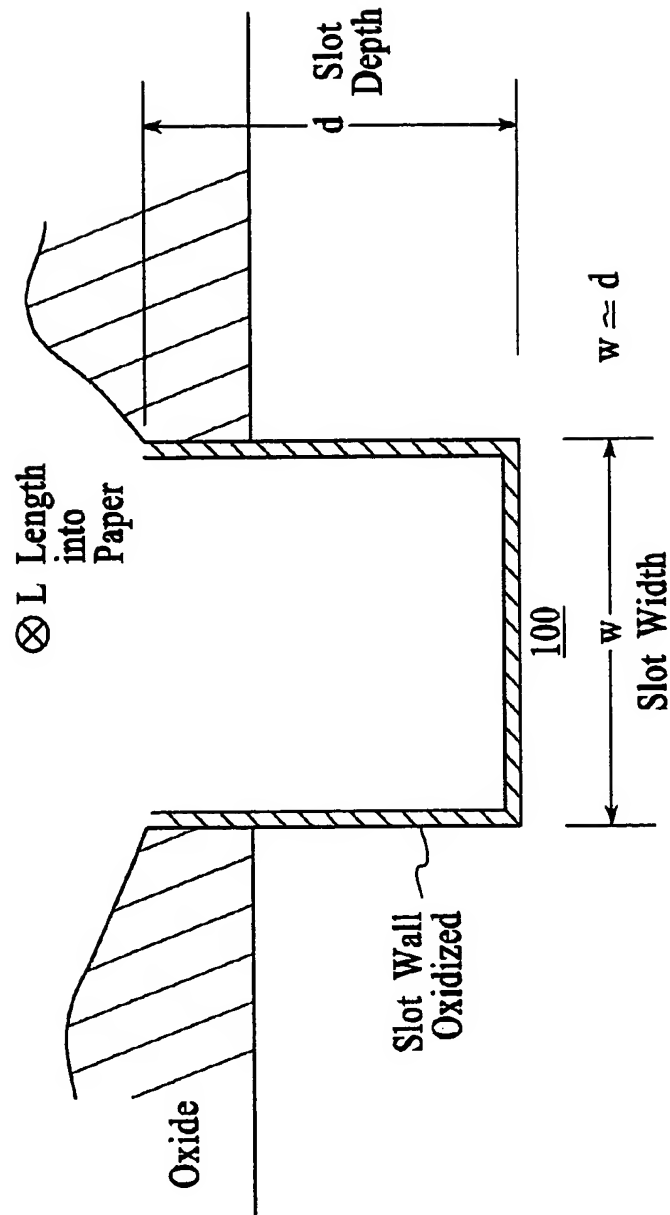
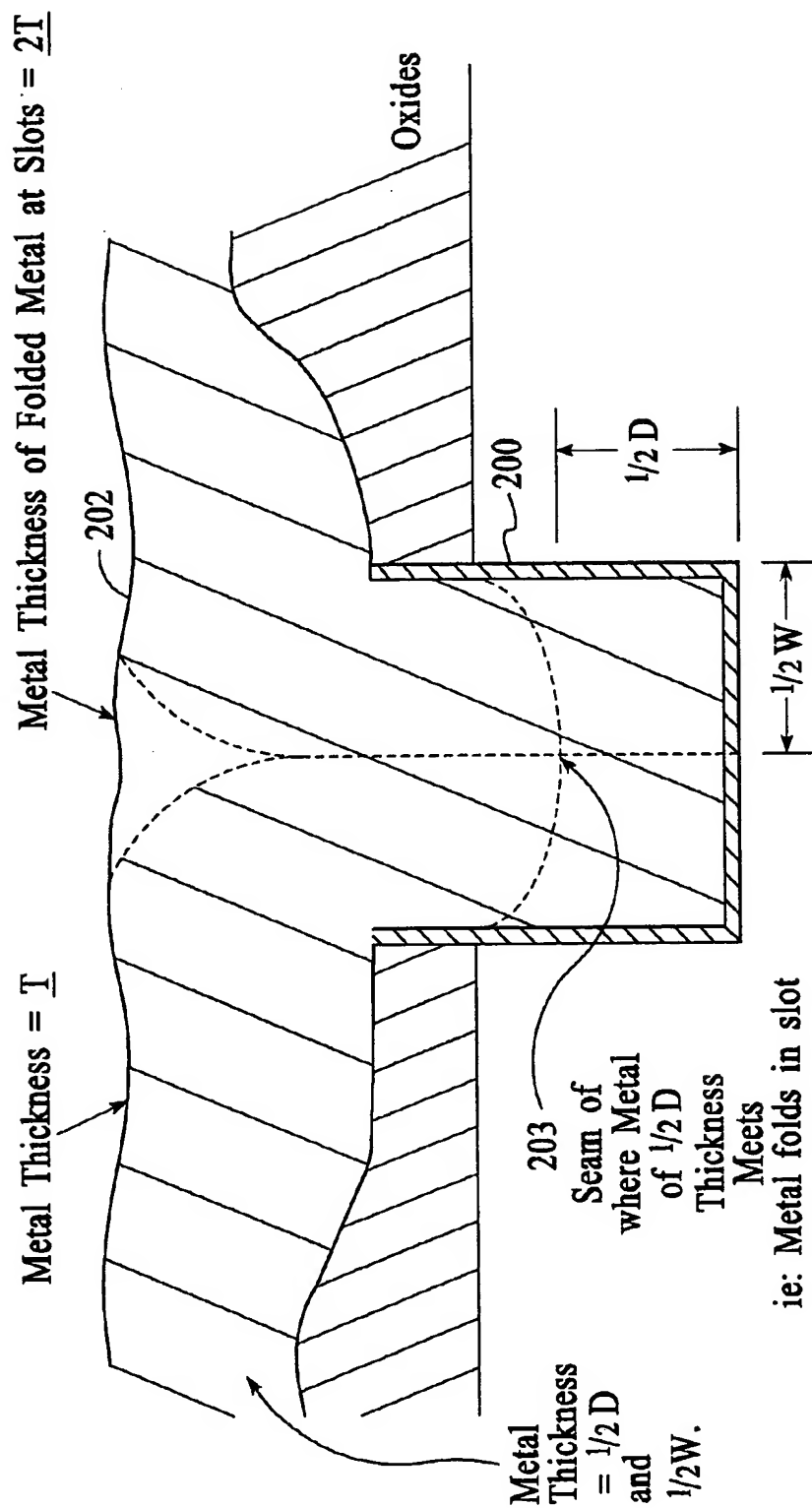


FIG. 2G



Typical Oxidized Slot showing Width (W) equal to depth (D)

FIG. 3



Metal Folding in Slot to give double Thickness of Metal at Slots

FIG. 4

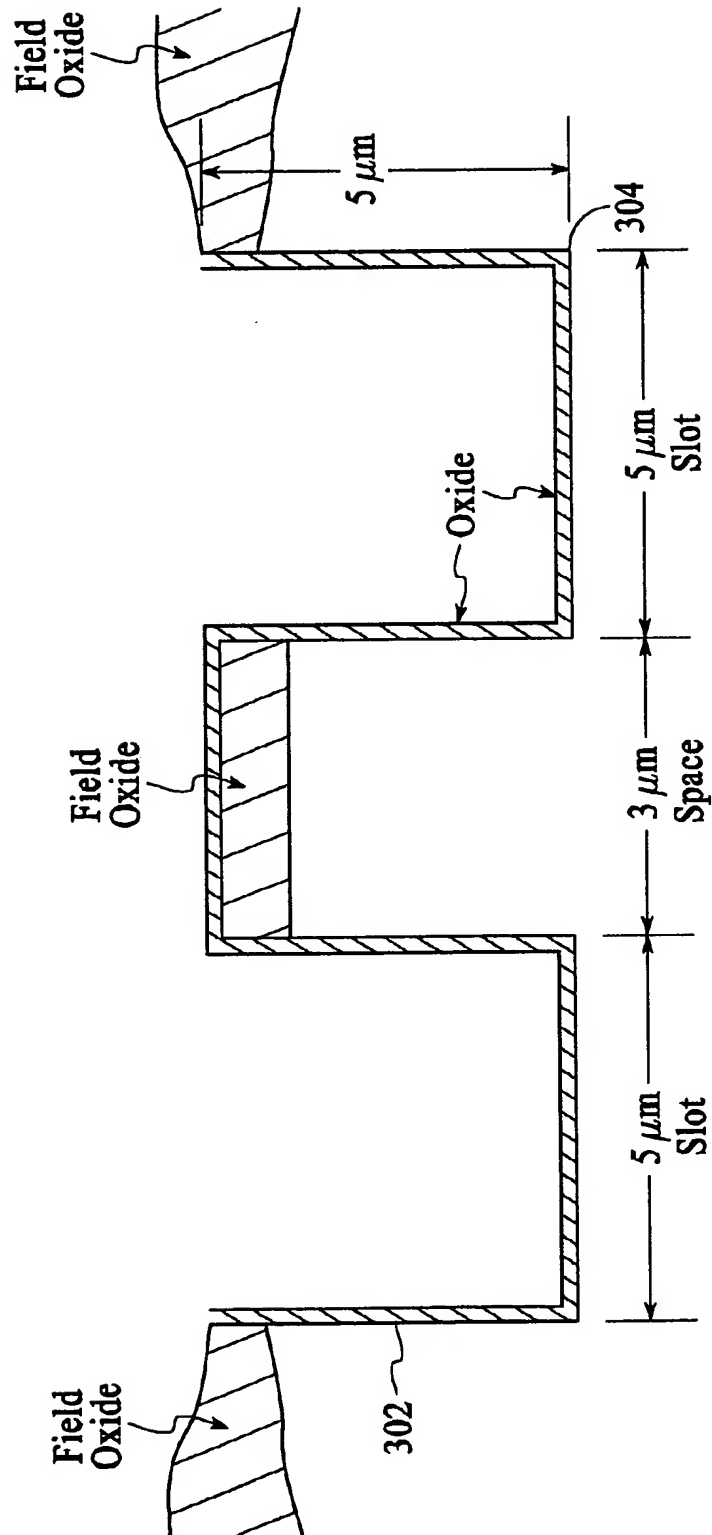
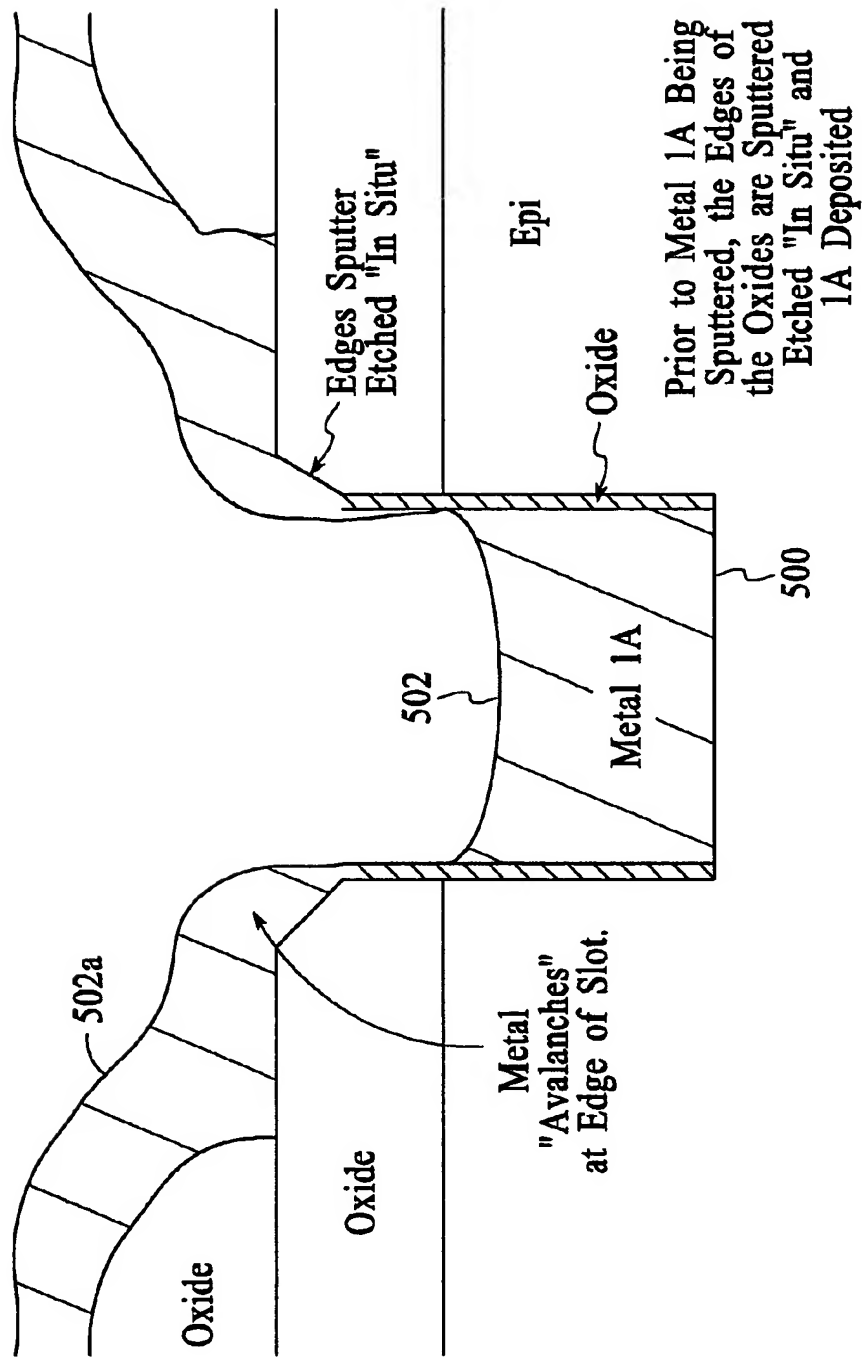
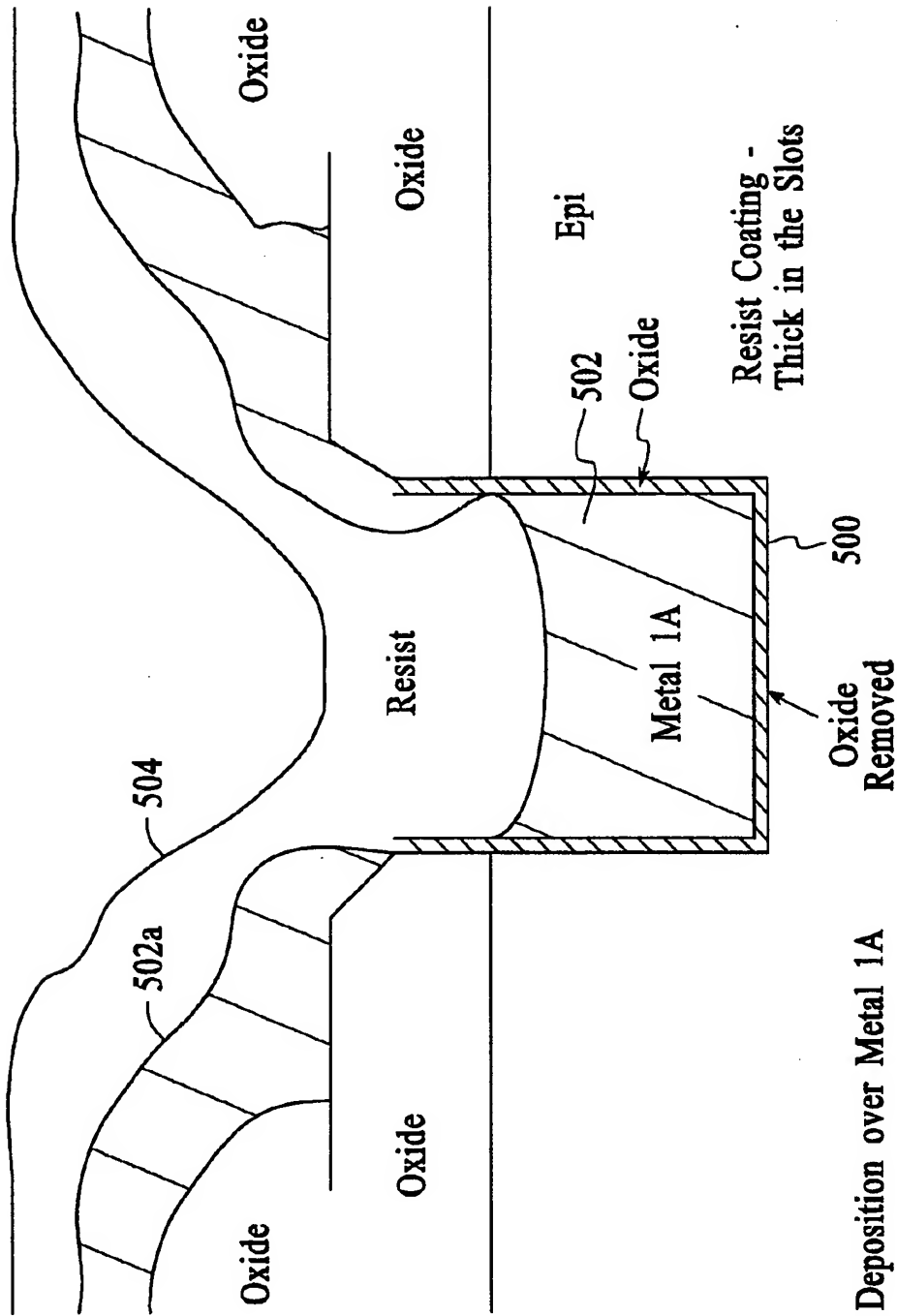


FIG. 5



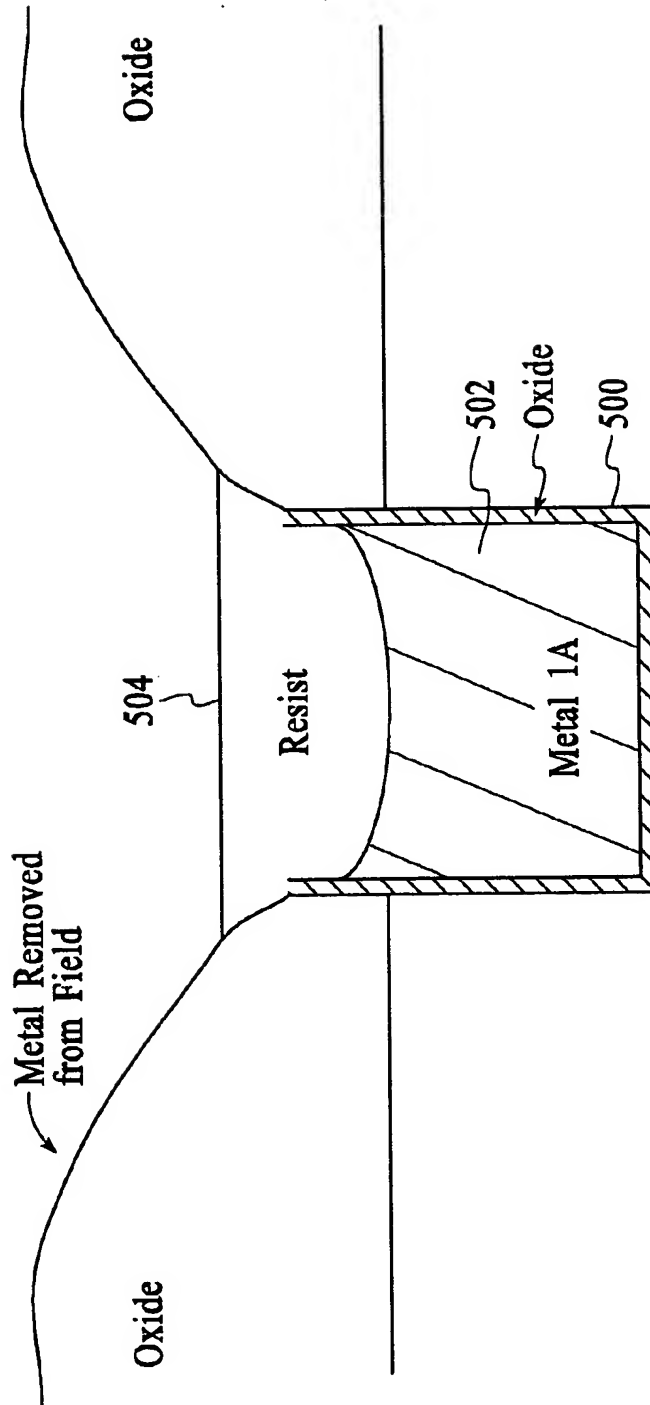
After Metal 1A Deposition

FIG. 6



Resist Deposition over Metal 1A

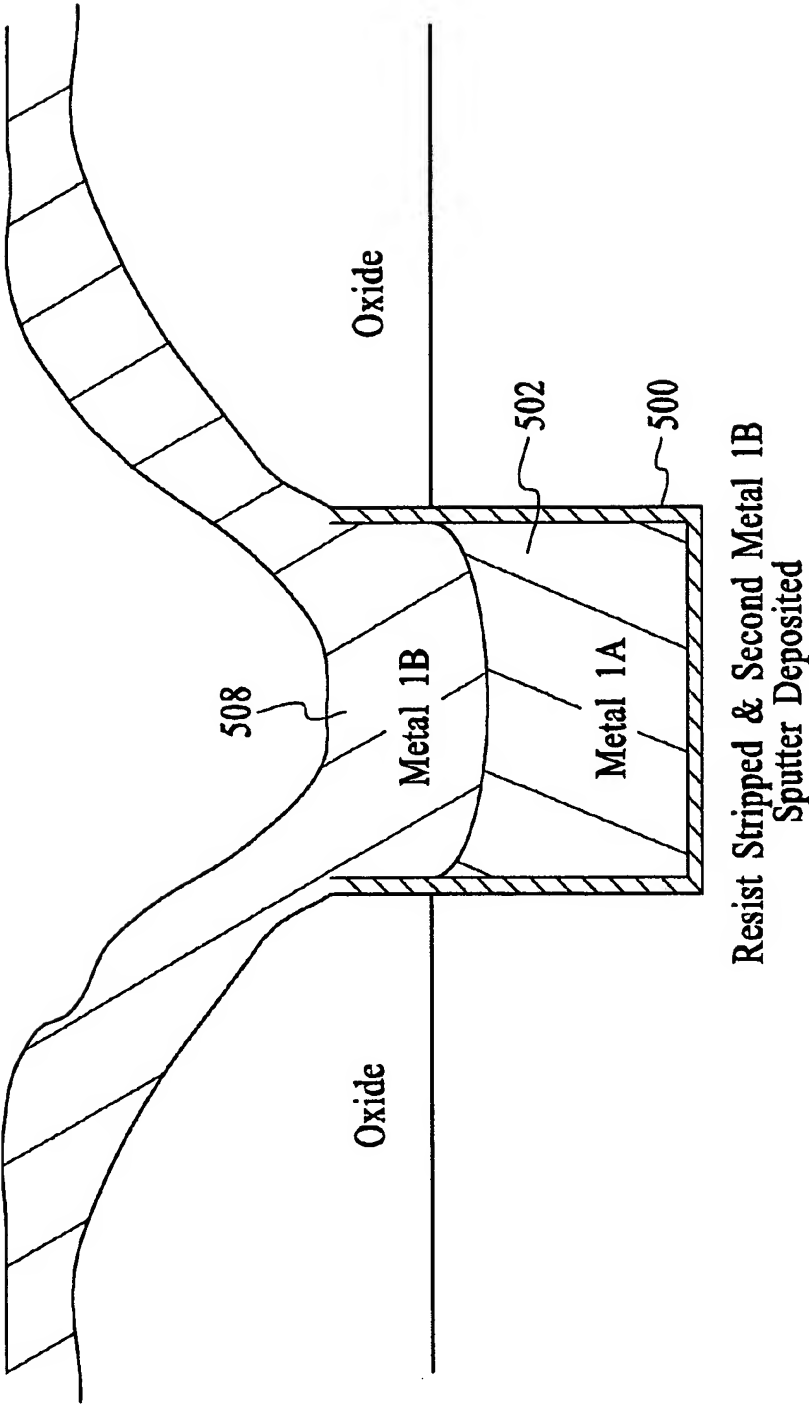
FIG. 7



Resist Planar Etched Leaving Resist
in Slots. Field Metal Etched Off.

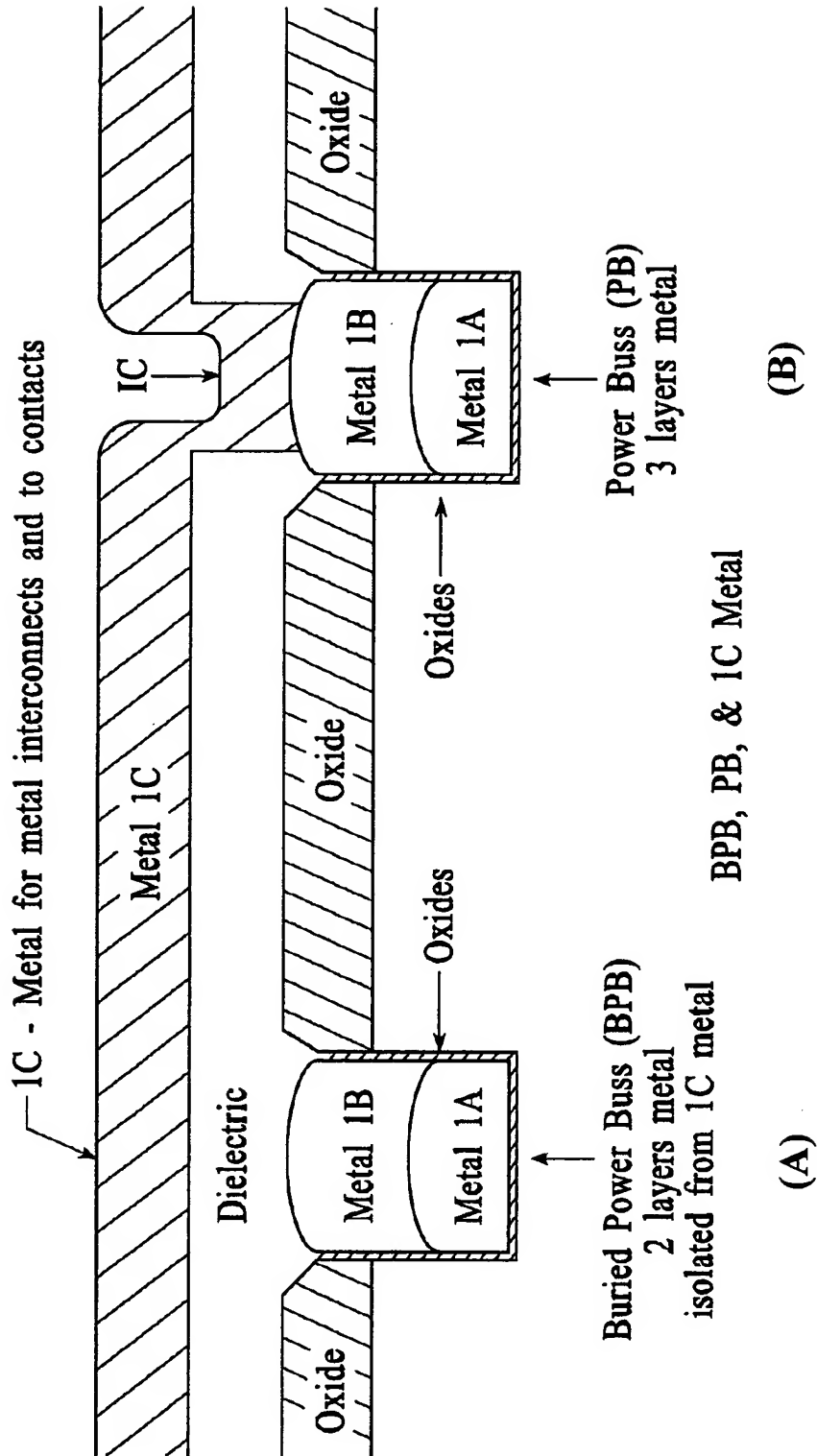
After Planarization - Metal Removed from Field (no masking)
Some Resist remains in Slot areas and is Resist Stripped

FIG. 8



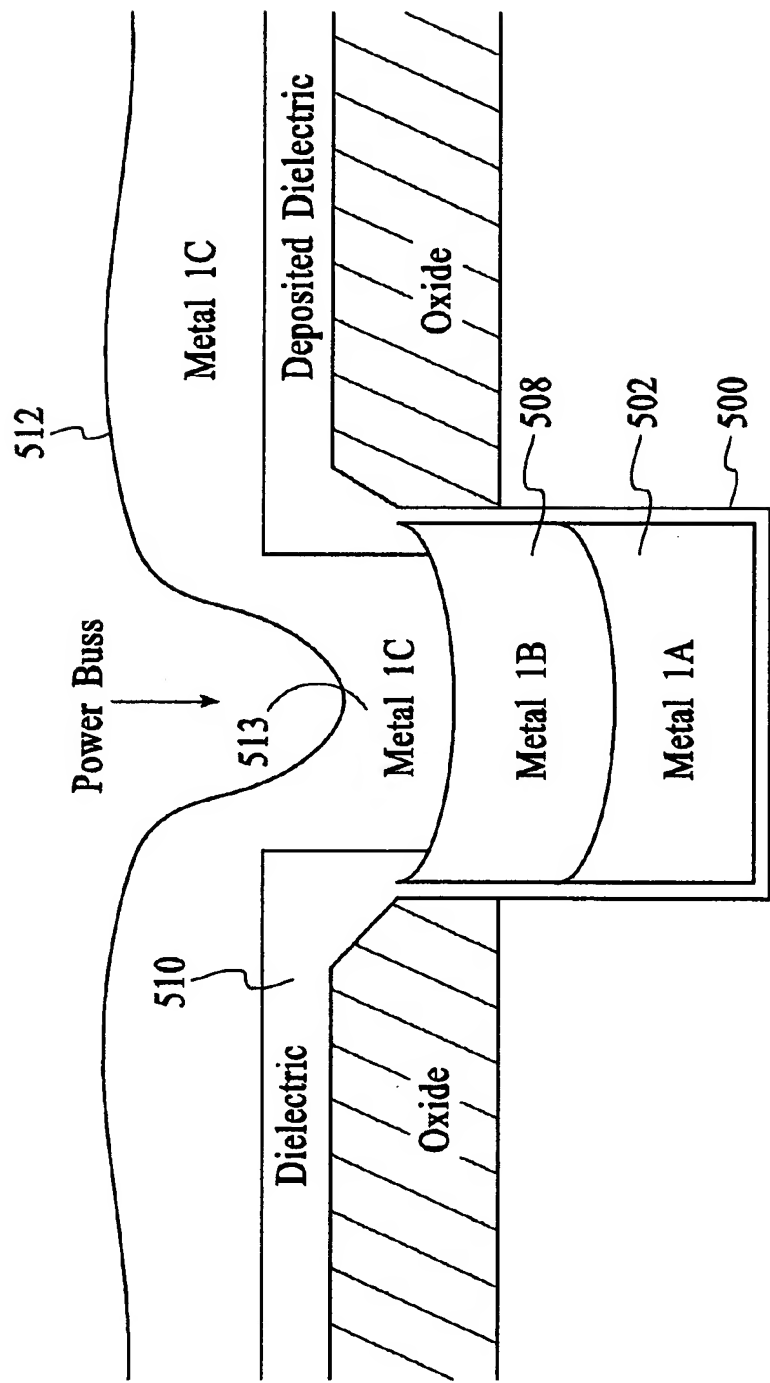
Metal 1B Deposited over Wafer

FIG. 9



Triple Metal & only 1C Metal Patterned

FIG. 10



Metal (3 layers - 1A, 1B, 1C) Shown in Power Buss

FIG. 11

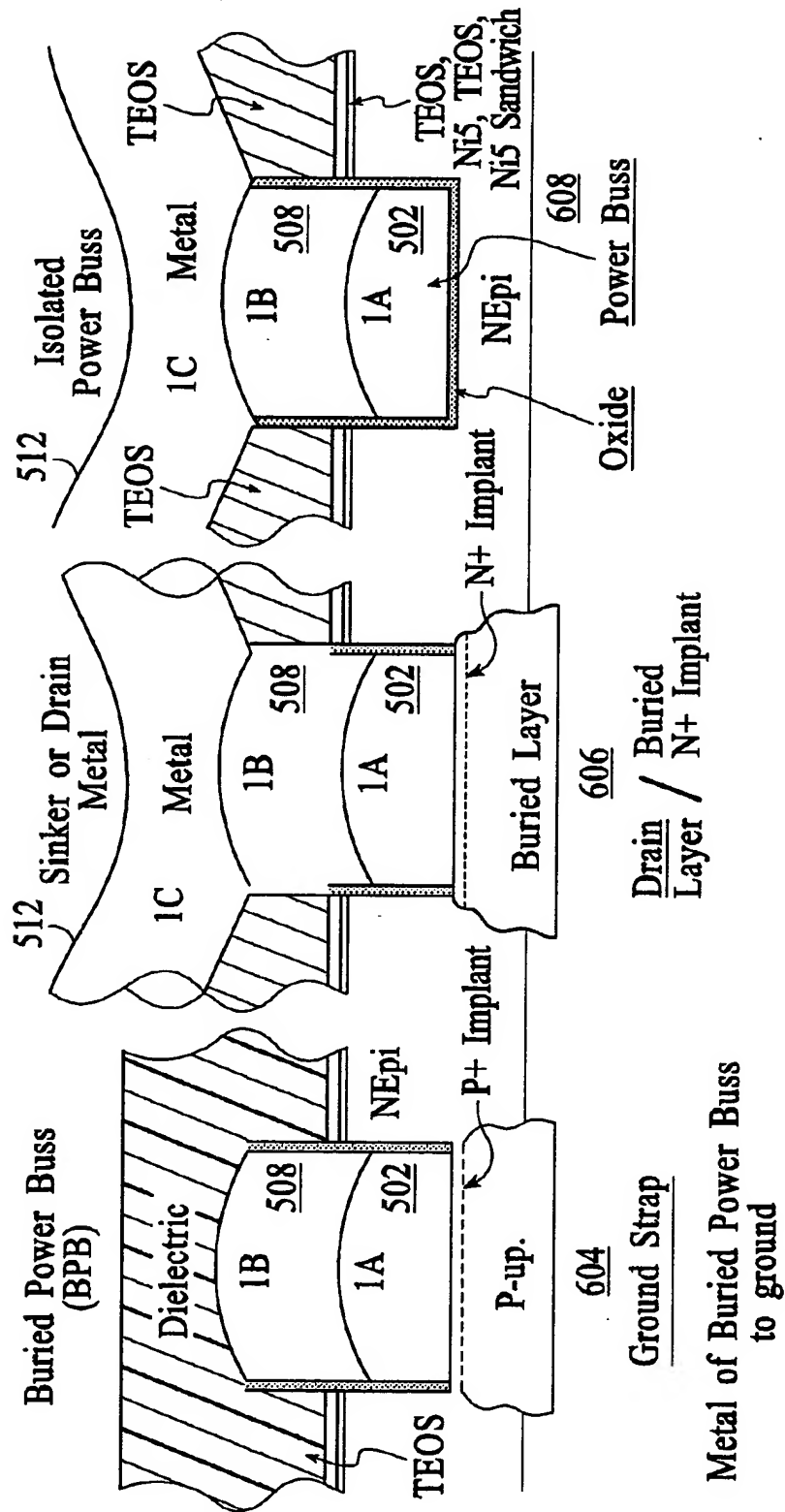
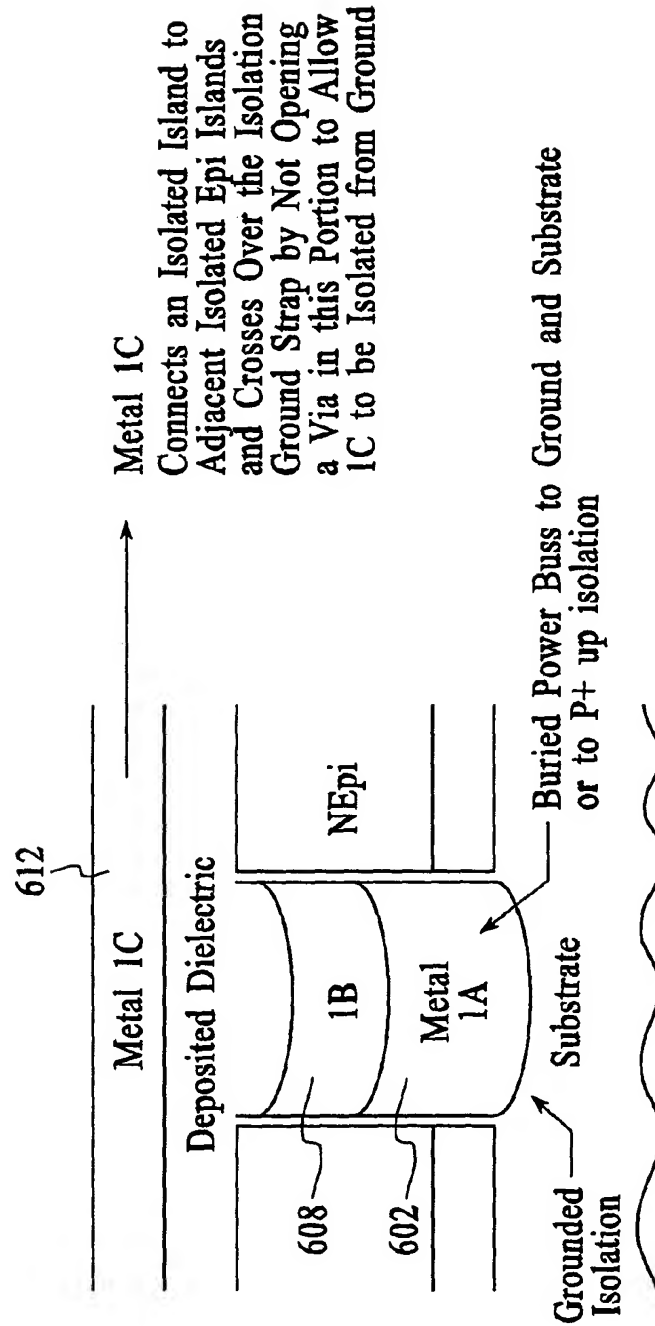


FIG. 12



Buried Power Buss to Ground. Isolated from 1C Metal which Interconnects Active, Positive Area, and Power Buss

FIG. 13